

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF COMMERCIAL FISHERIES

CALIFORNIA FISHERY MARKET NEWS MONTHLY SUMMARY

September 1963

Part II—Fishing Information*

Sea-surface temperatures, fishing and research information
of interest to the West Coast tuna-fishing industry
and marine scientists

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Bureau of Commercial Fisheries
Biological Laboratory
P. O. Box 6317, Pt. Loma Station
San Diego 6, California

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SEA SURFACE TEMPERATURE CHARTS, EASTERN PACIFIC OCEAN
SEPTEMBER 1963

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R. A. Smith at Langara Island Light
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by Margaret Robinson and Hans Klein

Charts

Figure 1.--Mean sea surface temperatures (°F) derived from approximately 8000 observations. Squares show temperatures at weather-ship stations. Numerals on shore are temperatures at coastal and light-ship stations.

Figure 2.--Deviation of sea surface temperatures (°F) from long term charts of H.O. 225. Hatched areas are colder than mean.

Figure 3.--Deviation of sea surface temperatures (°F) from those of September 1962. Hatched areas are colder than 1962.

Figure 4.--Sea surface temperatures (°F) by 1-degree squares, approximately 2000 observations. Line under temperatures indicates average of two or more observations. Numerals on shore are temperatures at coastal stations.

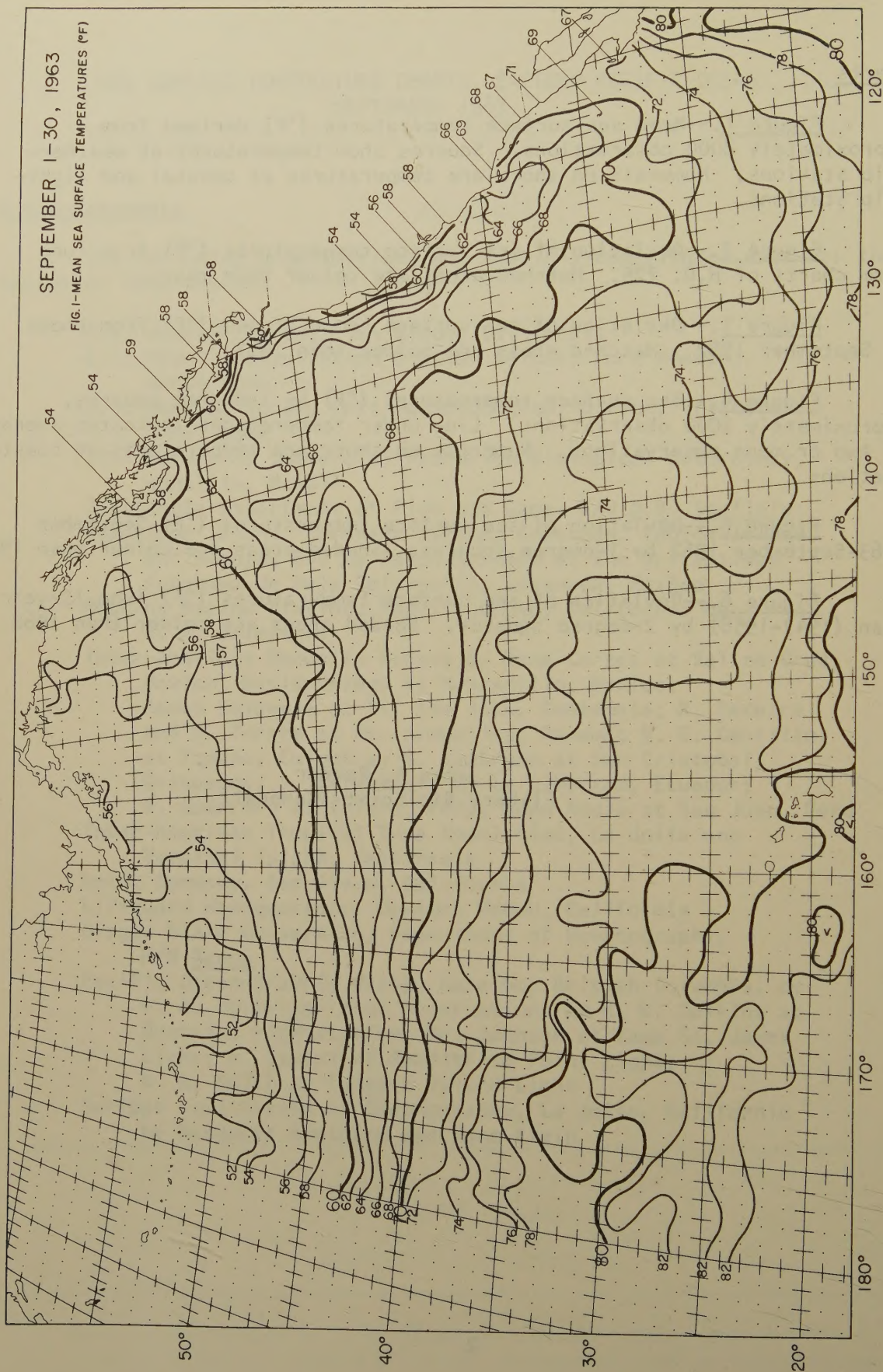
Figure 5.--Deviation of sea surface temperatures (°F) September 1963-September 1962 by 1-degree squares. Shaded areas are colder than 1962.

Figure 6.--Deviation of sea surface temperatures (°F) from 12-year mean (1947-1958) by 2-degree squares. Shaded areas are colder than 1962.

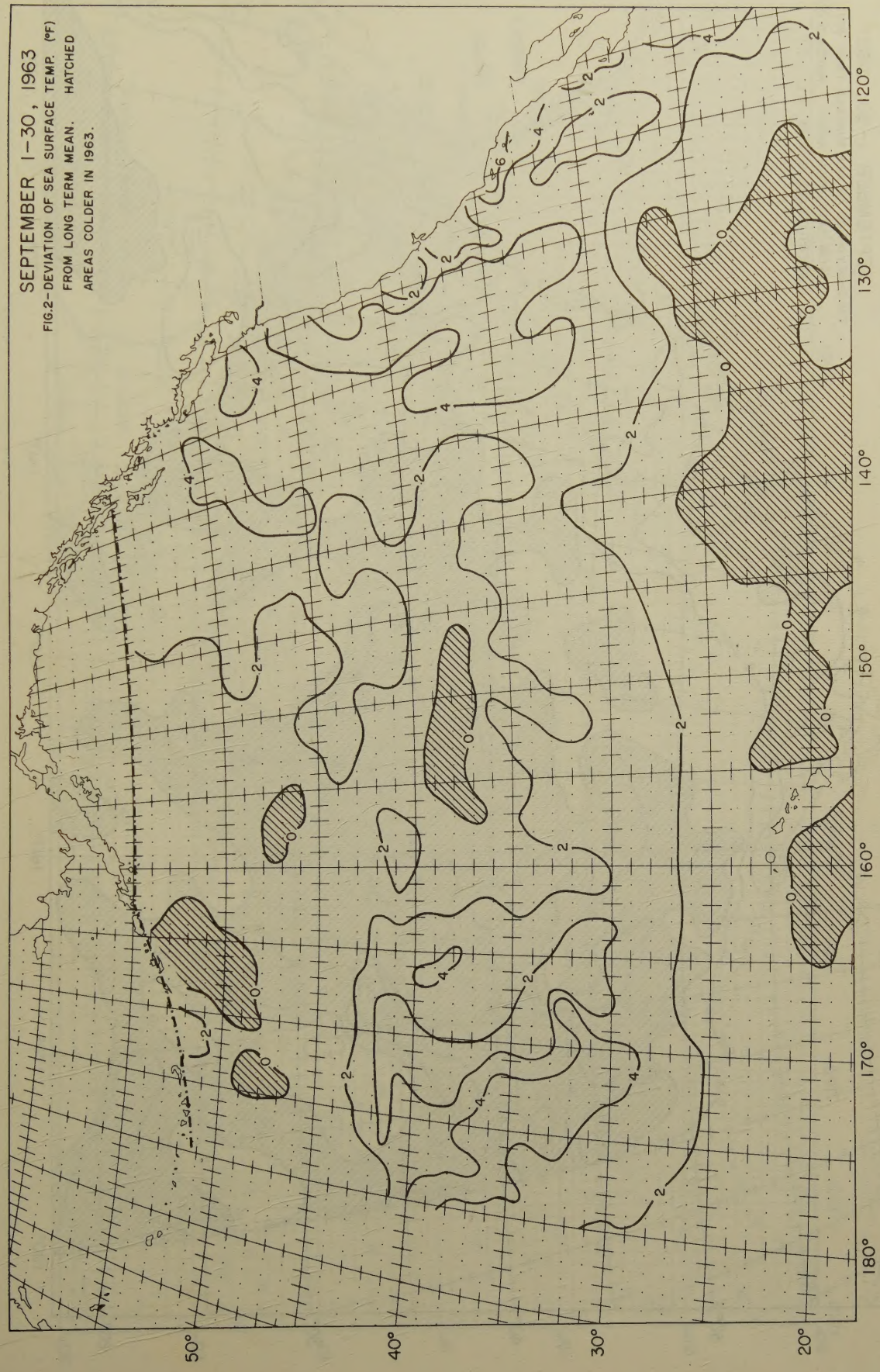
James A. Renner
Fishery Biologist (General)

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FIG. 1-MEAN SEA SURFACE TEMPERATURES (°F)

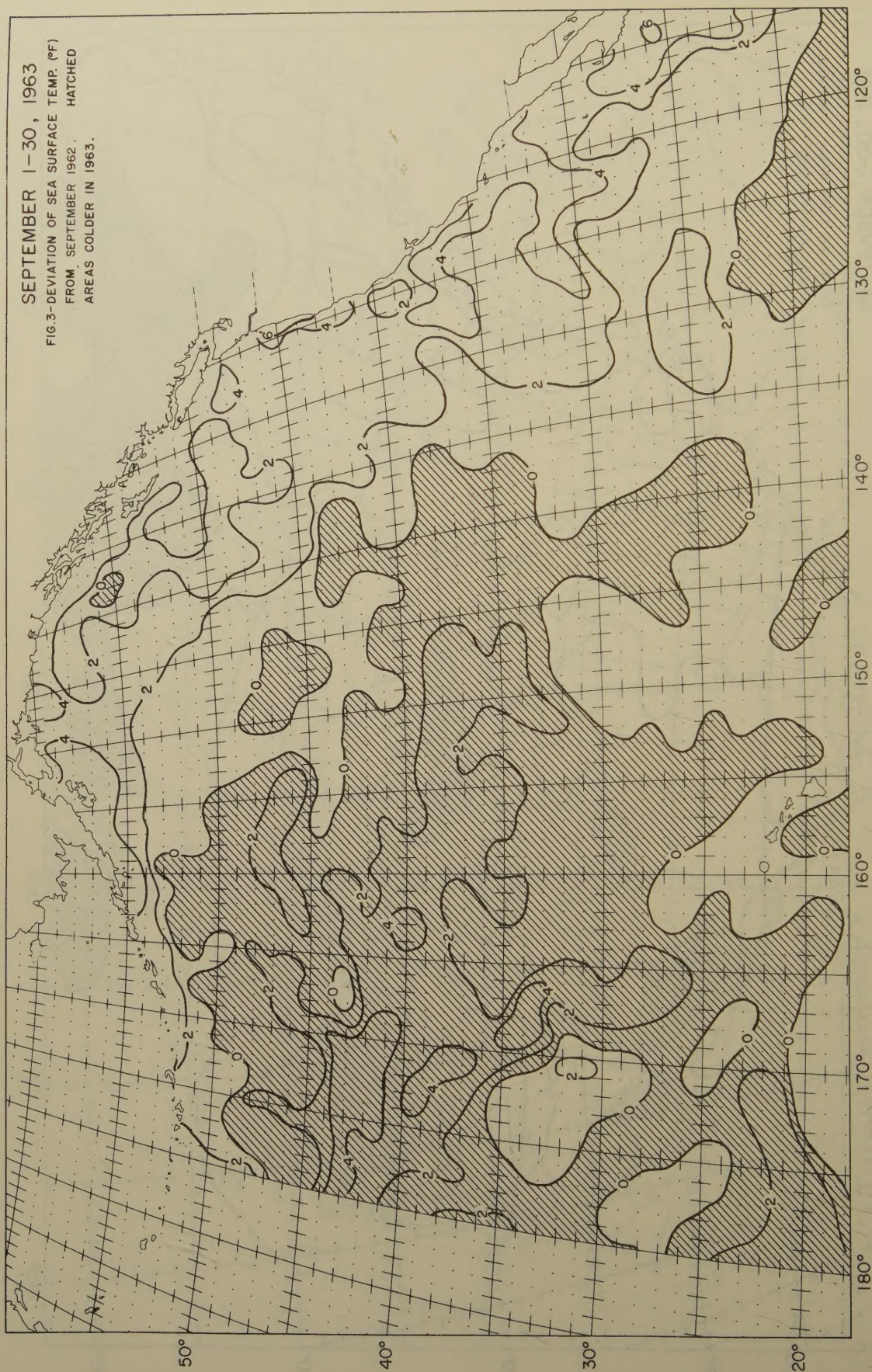


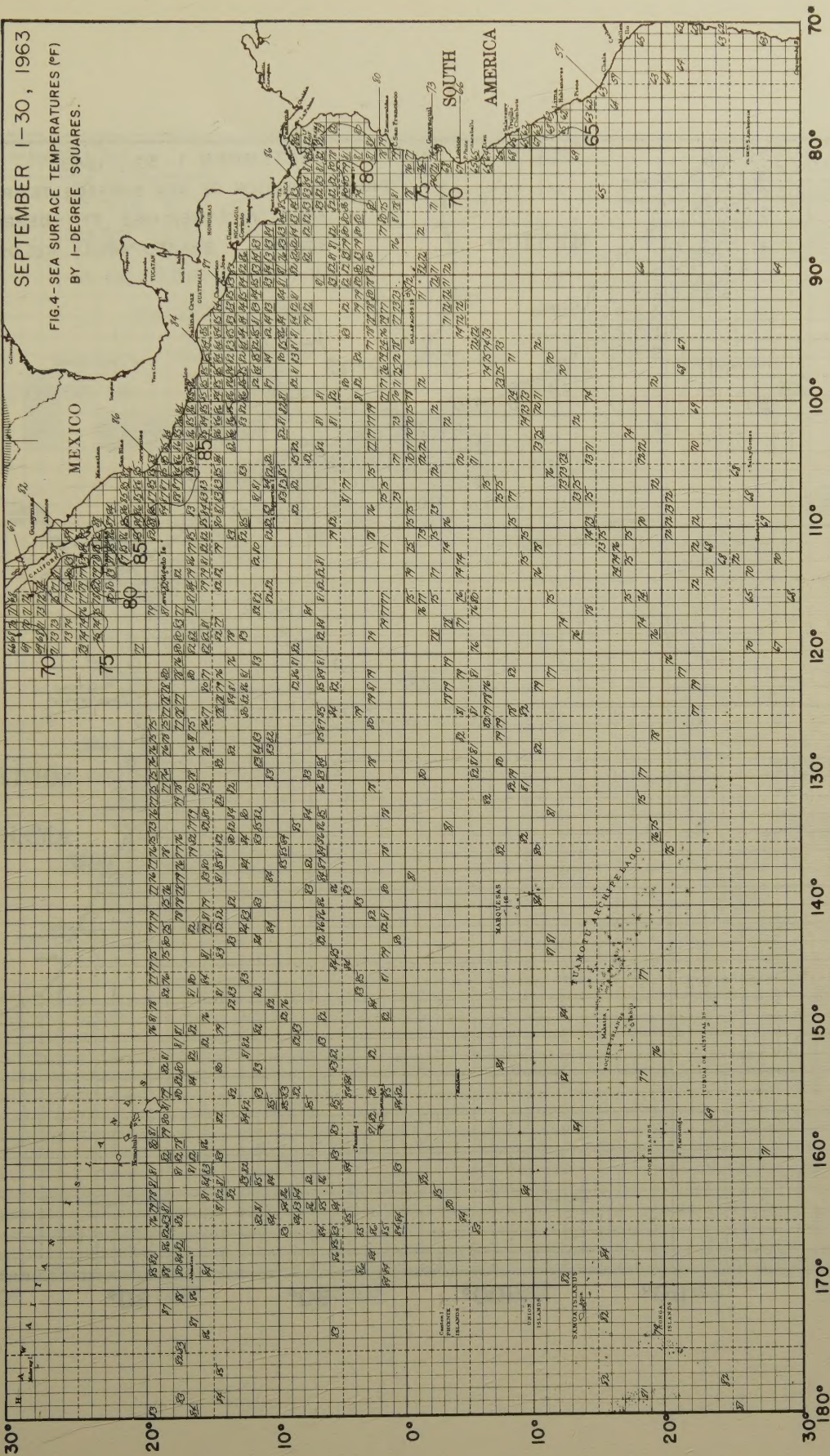
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FIG.2-DEVIATION OF SEA SURFACE TEMP. (°F)
FROM LONG TERM MEAN. HATCHED
AREAS COLDER IN 1963.

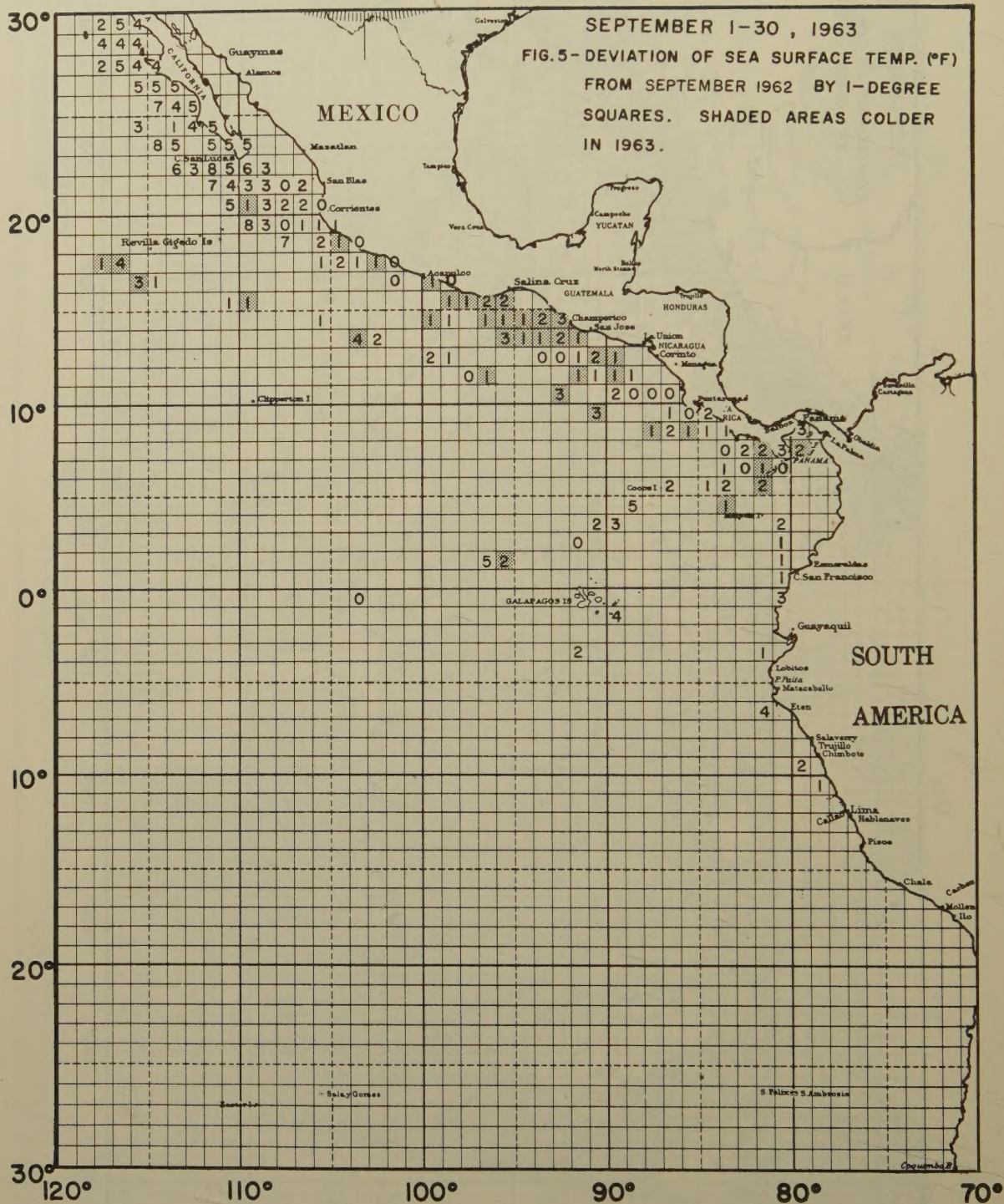


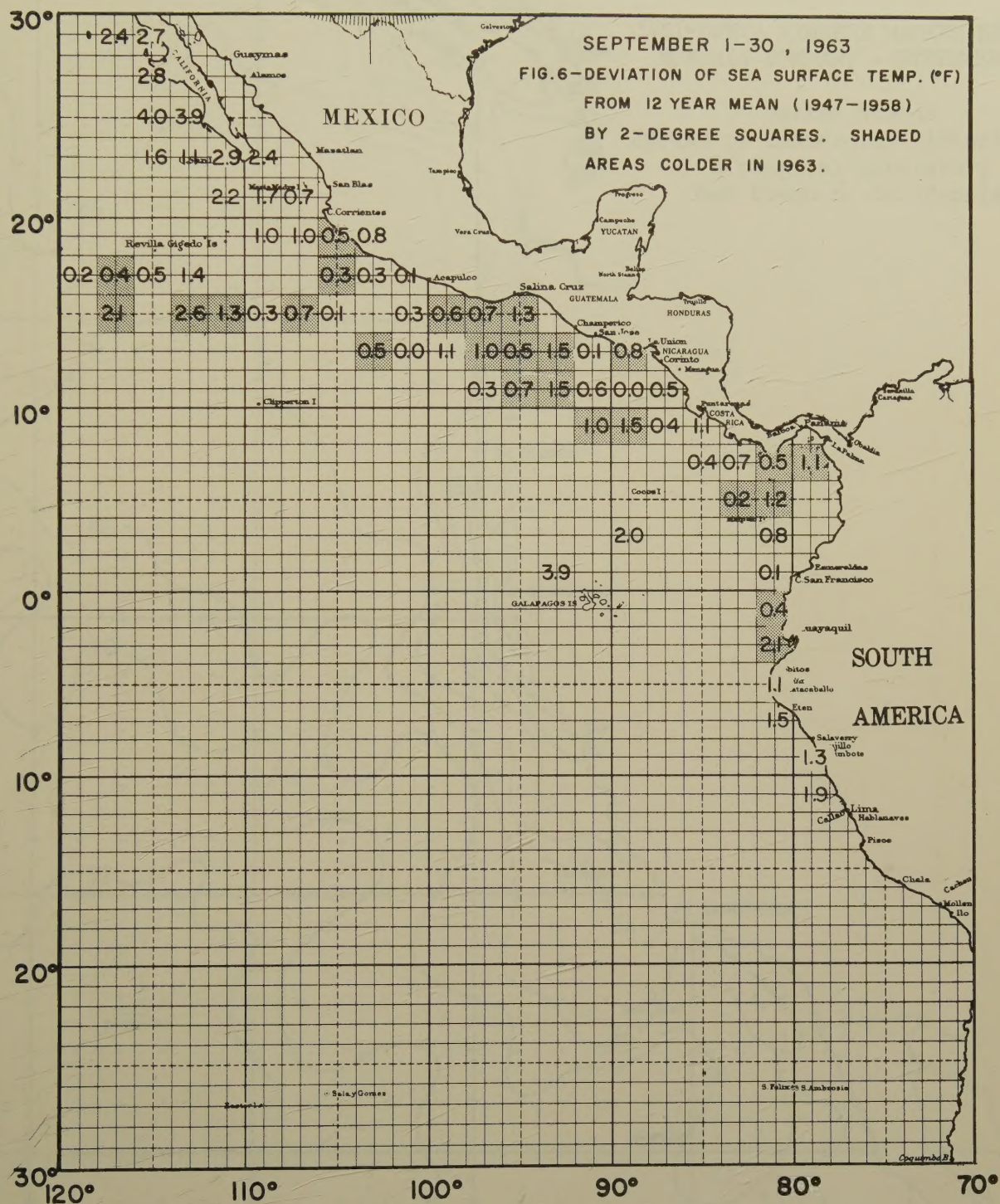
SEPTEMBER 1-30, 1963

FIG. 3-DEVIATION OF SEA SURFACE TEMP. (°F)
FROM SEPTEMBER 1962. HATCHED
AREAS COLDER IN 1963.





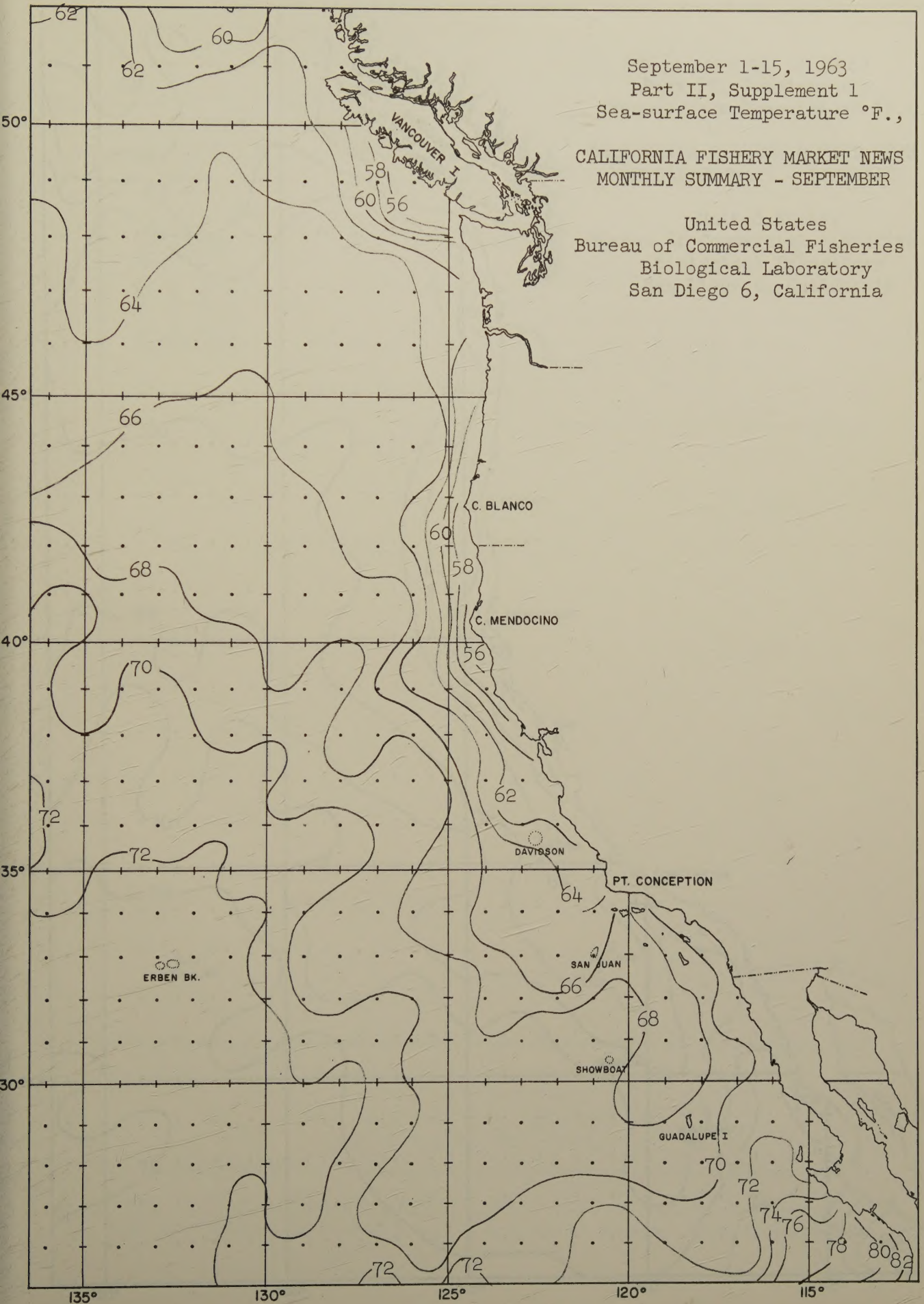




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